

R E M A R K S

Claims 1-17 currently remain in the application. Claims 1-7 were earlier amended and claims 12-17 are earlier added claims. Claims 1, 12, 13 and 17 are herein amended.

Claims 1, 12, 13 and 17 are herein amended in view of the Examiner's rejection under 35 U.S.C 103 over Egan in view of various secondary references by specifically limiting these claims by saying that the indicial response characteristics of the PDI control of the heating controlling means are made adjustable according to kinds of elements to be detected and that such adjustments are made in units of milliseconds. This further limitation is clearly supported by the specification and hence should be deemed enterable. Moreover, this further limitation is believed to obviate the Examiner's rejection because prior art relates to adjustments made humanly and this means adjustments in units of seconds (page 4, lines 3-5 of the specification).

Respectfully submitted,


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